

Amendments to the Claims

1. (Currently Amended) A method for operating an automatic storage and retrieval system, wherein the automatic storage and retrieval system (AS/RS) is used to connect a user's computer device through a communication network to an AS/RS programmable logic controller (PLC) configured to operate one or more material storage bins~~through a communication network, and has a first database for storing a plurality of storage bin data each including a material, a corresponding storage bin for storing the material, controlling authorization for identifying the storage bin and an identification number corresponding to the storage bin;~~ the method comprising the steps of:

(1) displaying via sending from the AS/RS a daily required material report in to a browser of the a user's computer device after a the user has logged-in to the AS/RS through using an identification number provided for to the user, and receiving at the AS/RS a material data object associated with a material selected from the material report by the user;

(2) having searching via the AS/RS search in the a first database for a storage bin datum data object relating related to the material selected by the user, wherein the storage bin data object is associated with a material storage bin, and determine determining if the identification number of the user is identical to that of the searched datum authorized to handle the selected material, wherein if the user does not match the searched datum in identification number is not authorized to handle the selected material, then step (3) is followed; or else, a corresponding storage bin for the selected material is obtained from the searched datum, and then step (4) is followed;

(3) having sending via the AS/RS send a message showing no authorization for handling the selected material to the user's computer device, and returning to the step (1); and

(4) informing the AS/RS PLC to operate the obtained storage bin for storing or retrieving the selected material store the selected material in, or retrieve the selected material

from, said storage bin associated with said storage bin data object related to the material selected by the user.

2. (Currently Amended) The method of claim 1, after the step (4), further comprising a step (5) of storing data relating to activities performed by the user ~~logged in the AS/RS~~ in a second database so as to allow operation of the AS/SR to be monitored in real time.

3. (Currently Amended) The method of claim 2, wherein the second database stores a plurality of records, which each includes ~~the~~an identification number of the user, login time, the material data object associated with the selected material or ~~the operated storage bins~~said storage bin data object.

4. (Original) The method of claim 1, wherein the user's computer device is a computer.

5. (Original) The method of claim 4, wherein the computer includes a browser for allowing the user to input a material to be selected thereto and sending a request to the AS/RS for material storage or retrieval.

6. (Currently Amended) The method of claim 1, wherein the automatic storage and retrieval system comprises:

the first database; and

a database server for executing the step (1) of receiving the material data object associated with the material selected by the user, and for executing the step (3) of sending the message or the step (4) of ~~storing or retrieving the selected material according to the determination in the step (2) of informing the AS/RS PLC to store the selected material in or retrieve the selected material from said storage bin related to said storage bin data object related to the material selected by the user.~~

7. (Currently Amended) The method of claim 3, wherein the automatic storage and retrieval system comprises:

the first database;

the second database; and

a database server for executing the step (1) of receiving the material data object associated with the material selected by the user, and for executing the step (3) of sending the message or the step (4) of informing the AS/RS PLC to store the selected material in or retrieve the selected material from said storage bin related to said storage bin data object related to the material selected by the user of storing or retrieving the selected material according to the determination in the step (2), as well as for executing the step (5) of storing the records.

8. (Original) The method of claim 6, wherein the database server employs structured query language (SQL) statements for processing interaction between the first database and the user.

9. (Original) The method of claim 7, wherein the database server employs SQL statements for processing interaction between the user and the first and second databases.

10. (Currently Amended) The method of claim 7, wherein the communication network is an internet or intranet.

11. (Currently Amended) An automatic storage and retrieval system (AS/RS) for use to connect a user's computer device through a communication network to an AS/RS programmable logic controller (PLC) configured to operate one or more material storage bins, wherein a user is provided with an identification number for logged in and is allowed to login to the AS/RS using the identification number, and a daily required material report is displayed in the user's computer device for allowing the user to select a material from the material report, so as to control the AS/RS PLC to store or retrieve the selected material; the AS/RS comprising:

a first database for storing a plurality of storage bin data, each including a material, a corresponding storage bin for the material, controlling authorization for identifying the storage bin and an corresponding identification number for the storage bin for storing a plurality of storage bin data objects, each storage bin data object being associated with a material storage bin; and

a database server for processing interaction between the first database and the user, so as to search in the first database for a storage bin datum-data object corresponding to the material selected by the user, and for determining determine if the identification number of the user is identical to that of the searched datumsaid storage bin data object, wherein if the user identification number matches the searched datum in identification numberssaid storage bin data object, then the AS/RS automatically informs the AS/RS PLC to operate a corresponding the material storage bin identified by said storage bin data object obtained from the searched datum for storing or retrieving the selected material; if the user identity identification number does not match the searched datumsaid storage bin data object in identification number, then the AS/RS inhibits the material storage or retrieval.

12. (Currently Amended) The AS/RS of claim 11, wherein the database server employs SQL statements for processing interaction between the user and the first and second databasesdatabase.

13. (Previously Presented) The AS/RS of claim 11, further comprising a second database for storing records relating to activities performed by the user logged-in the AS/RS.

14. (Original) The AS/RS of claim 13, wherein the database server employs SQL statements for processing interaction between the user and the first and second databases.

15. (Currently Amended) The AS/RS of claim 13, wherein the records each includes the identification number of the user, login time, the material data object associated with the selected material or the operated storage binssaid storage bin data object.

16. (Original) The AS/RS of claim 11, wherein the user's computer device is a computer.

17. (Original) The AS/RS of claim 16, wherein the computer includes a browser for allowing the user to input a material to be selected thereto and sending a request to the AS/RS for material storage or retrieval.

18. (Currently Amended) The AS/RS of claim 11, wherein the communication network is an internet or intranet.